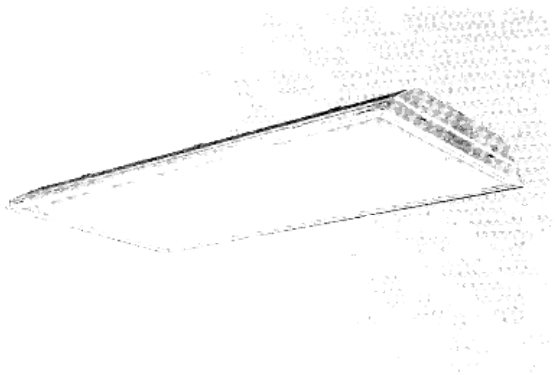
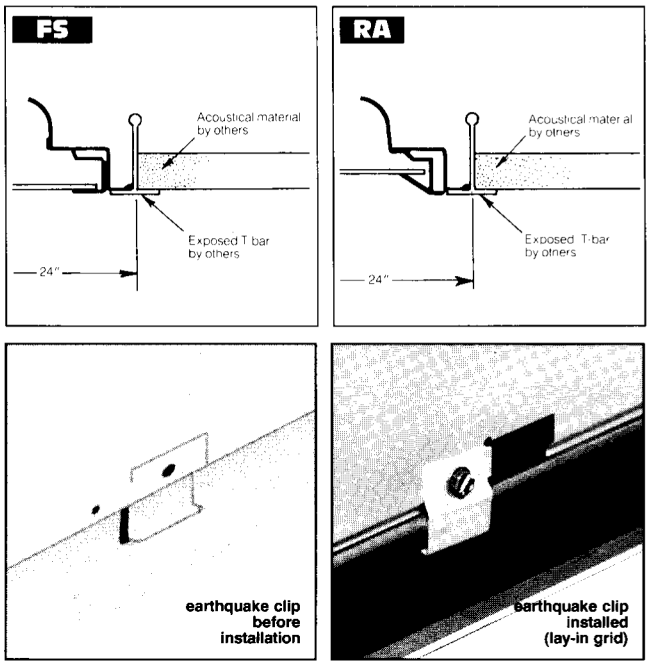
2′ X 4′ RECESSED FLUORESCENT STATIC LENS TROFFER WITH SPECULAR REFLECTORS 2 LAMP, RAPID START

Features

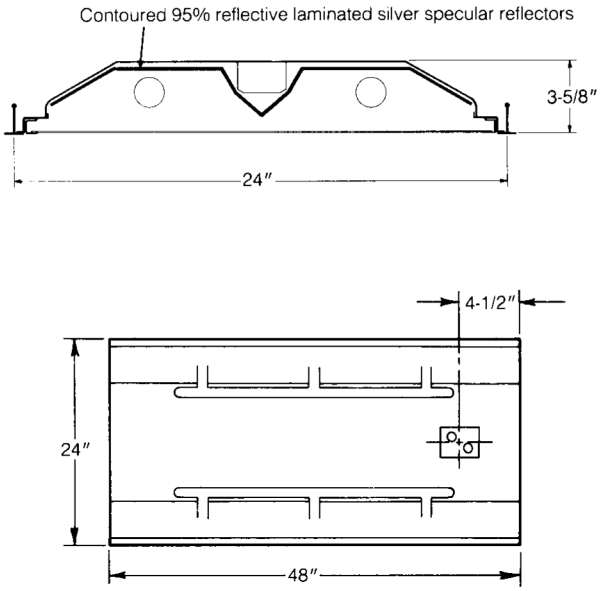
- 95% reflective silver laminate specular reflector protected with strippable film.
- 82.5% efficient.
- Fixture side rails have rolled-over edges for maximum safety.
- Built-in earthquake clips (patent pending).
- Only 3 5/8″ deep.
- End cap has single form configuration and formed edges for easy lamping and safety.
- Lens frame overlaps end cap for positive light stop.
- Mitered appearance lens frame.
- UL-listed fully enclosed wireway.
- UL-listed twin knockout access plate for easy closed wiring.
- Fits new narrow slot grid ceiling systems.
- Metal gauge/construction to meet NYC Code requirements is available.



MOUNTING METHODS



DIMENSIONS

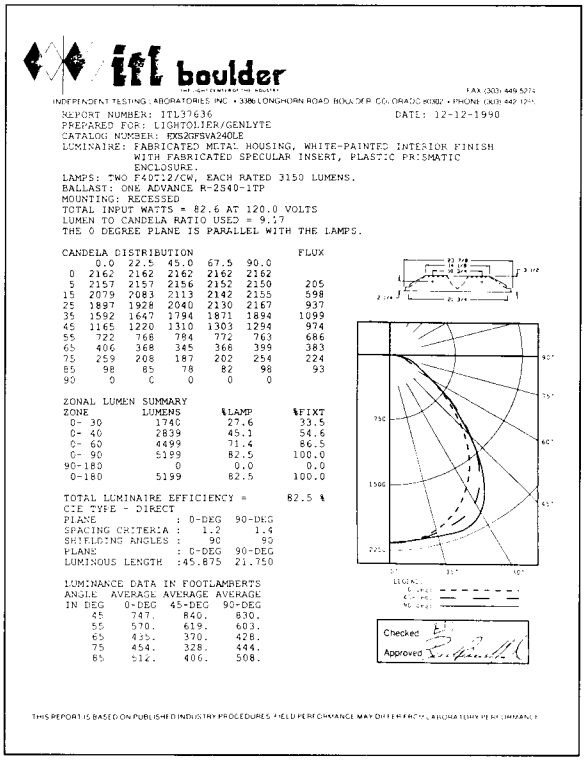


Job Information	Type:
Job Name:	
Cat. No.:	
Lamp(s):	
Volts/Ballast:	

Lightolier a Genlyte Thomas Company www.lightolier.com
Technical Information: (978) 657-7600 • Fax (978) 658-0595
631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
We reserve the right to change details of design, materials and finish.
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LIGHTOLIER®

PHOTOMETRY



itl boulder

INDEPENDENT TESTING: ABORATORIES INC • 3380 LONGHORN ROAD BOULDER CO. COLORADO 80302 • PHONE (303) 449-1214 FAX (303) 449-5274

REPORT NUMBER: ITL37636 DATE: 12-12-1990
PREPARED FOR: LIGHTOLIER/GENLYTE
CATALOG NUMBER: EXS2GFSVA240LE
LUMINAIRE: FABRICATED METAL HOUSING, WHITE-PAINTED INTERIOR FINISH WITH FABRICATED SPECULAR INSERT, PLASTIC PRISMATIC ENCLOSURE.
LAMPS: TWO F40T12/CW, EACH RATED 3150 LUMENS.
BALLAST: ONE ADVANCE R-2S40-1TP
MOUNTING: RECESSED
TOTAL INPUT WATTS = 82.6 AT 120.0 VOLTS
LUMEN TO CANDELA RATIO USED = 9.17
THE 0 DEGREE PLANE IS PARALLEL WITH THE LAMPS.

CANDELA DISTRIBUTION

	0.0	22.5	45.0	67.5	90.0	FLUX
0	2162	2162	2162	2162	2162	
5	2157	2157	2156	2152	2150	205
15	2079	2083	2113	2142	2155	598
25	1897	1928	2040	2130	2167	937
35	1592	1647	1794	1871	1894	1099
45	1165	1220	1310	1303	1294	974
55	722	768	784	772	763	686
65	406	368	345	368	399	383
75	259	208	187	202	254	224
85	98	85	78	82	98	93
90	0	C	0	0	0	

ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXT
0- 30	1740	27.6	33.5
0- 40	2839	45.1	54.6
0- 60	4499	71.4	86.5
0- 90	5199	82.5	100.0
90-180	0	0.0	0.0
0-180	5199	82.5	100.0

TOTAL LUMINAIRE EFFICIENCY = 82.5 %
CIE TYPE - DIRECT

PLANE	0-DEG	90-DEG
SPACING CRITERIA	1.2	1.4
SHIELDING ANGLES	90	90
PLANE	0-DEG	90-DEG
LUMINOUS LENGTH	45.875	21.750

LUMINANCE DATA IN FOOTLAMBERTS

ANGLE IN DEG	AVERAGE 0-DEG	AVERAGE 45-DEG	AVERAGE 90-DEG
45	747.	840.	830.
55	570.	619.	603.
65	435.	370.	428.
75	454.	328.	444.
85	512.	406.	508.

Checked
Approved

THIS REPORT IS BASED ON PUBLISHED INDUSTRY PROCEDURES. FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.

MODEL NO. EXS2GFSVA240LE

coefficients of utilization — zonal cavity method

RF		20			20			20	
RC		80			50			30	
RW	70	50	30	50	30	10	50	30	10
room cavity ratio 1	91	88	85	83	80	78	79	78	76
2	84	79	74	74	71	67	72	69	66
3	78	71	65	67	62	59	65	61	58
4	72	64	57	61	55	51	59	54	51
5	67	57	50	54	49	45	53	48	44
6	62	52	45	49	44	39	48	43	39
7	57	47	40	45	39	35	44	38	35
8	53	42	35	40	35	30	39	34	30
9	48	38	31	36	31	27	35	30	26
10	45	34	28	33	27	24	32	27	23

visual comfort probability (VCP) average 100 fc; reflectances 80/50/20

room size		luminaires lengthwise: ceiling height				luminaires crosswise: ceiling height			
W	L	8.5	10.0	13.0	16.0	8.5	10.0	13.0	16.0
20	20	73	77	82	87	73	76	81	86
20	30	66	70	75	80	66	70	75	79
20	40	62	65	70	74	62	65	70	74
20	60	58	62	65	69	58	62	65	69
30	20	74	78	82	86	74	78	81	85
30	30	67	71	75	78	67	71	74	78
30	40	62	65	69	72	63	66	69	72
30	60	58	61	64	67	68	61	64	67
30	80	55	58	60	64	56	59	61	64
40	20	75	79	83	86	75	79	82	85
40	30	68	72	75	78	68	72	75	78
40	40	63	66	70	72	63	66	70	72
40	60	58	61	64	67	59	62	64	67
40	80	56	58	60	63	56	59	60	63
40	100	54	56	57	60	54	57	58	60
60	30	69	72	76	79	69	73	76	78
60	40	64	67	70	73	64	67	70	73
60	60	59	62	63	67	59	62	64	67
60	80	56	58	59	62	56	59	60	63
60	100	54	56	57	60	54	56	57	60
100	40	66	69	71	75	67	69	71	74
100	60	61	64	65	68	62	64	65	68
100	80	58	60	61	64	58	60	61	64
100	100	55	57	58	60	55	57	58	60

ORDERING INFORMATION Explanation of Catalog Number Example: EXS2GFSVA240120LEGLR

EX	S	2	G		VA	2	40				
SILVERESCENT: Recessed Fluorescent Troffer Silver Laminate Reflector	STATIC	FIXTURE WIDTH	CEILING TYPE: G=Grid (lay-in T-bar)	LENS FRAME: FS=Flush full-size steel frame RA=Regressed full-size aluminum frame	LENS/ SHIELDING TYPE: VA (virgin acrylic) standard (see options and consult factory)	LAMP QUANTITY	LAMP/FIXTURE LENGTH: (nominal 48")	VOLTAGE: 120 or 277	BALLAST TYPE: LE=Energy Saving OC=Octic SS=Electronic SO=Electronic Octic		OPTIONS: Add appropriate suffix to catalog no., ie: (GLR)

NOTE: To meet NYC Code requirements, prefix catalog number with (NY). For NYC, some construction features do not apply.

OPTIONS/ACCESSORIES

SPECIAL LENSES: Substitute VB for .125" nominal pattern 12 with 7.8 oz. average weight per square foot. Substitute VI for .125" nominal pattern 12 with 6.8 oz. average weight per square foot

ACCESS PLATES: Top wiring access plate is shipped with fixture as standard. When access plates are required in advance for wiring convenience, specify separately. Order Catalog Number: ACP2.

ELECTRICAL/WIRING OPTIONS: Consult factory.

FUSING: Internal fast-blow fusing. SUFFIX: GLR.
Internal slow-blow fusing. SUFFIX: GMF.

RADIO INTERFERENCE FILTER: 120 or 277 volt, 50 or 60 Hz. One per fixture standard.

SPECIFICATIONS

PERFORMANCE: In an Installation of 2 lamp 40W luminaires in a room cavity ratio of 1, with reflectance 80% ceiling, 50% wall, 20% floor, the C.U. shall not be less than .88. To reduce glare, the VCP shall not be less than 59 either lengthwise or crosswise (at 100fc level) and the average brightness at 65° shall not exceed 435 footlamberts. To control veiling reflections, luminaire output in the 30° - 90° zone shall be not less than 66.5%.

MATERIALS: Chassis parts are die-formed code gauge cold rolled steel. Housing is embossed for added strength and end caps have two large die-formed tabs to interlock corners for dimensional stability. Integral side rails have rolled over edges and caps have formed edges for safe handling.

SPECIFICATIONS (continued)

FINISH: Chassis exterior-white baked polyester enamel. Phosphate under-coating.

REFLECTOR: Silver metalized film with 95% reflectivity (94% minimum), laminated to steel by a thermoset cross linked adhesive that eliminates delamination. Surface is protected during handling by a strippable plastic film.

ELECTRICAL: Rapid start HPF, LE (energy saving) thermally protected class "P" ballast C.B.M. certified by E.T.L. If K.O. is within 3" of ballast, use wire suitable for at least 90°.

LABELS: I.B.E.W. Listed by Underwriters Laboratories.

Job Information	Type:

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